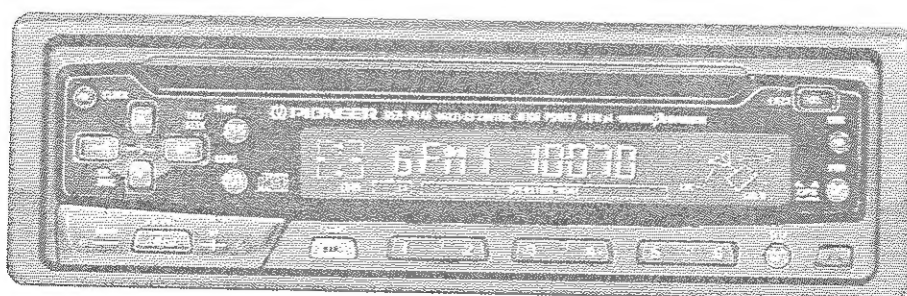Multi-CD control High power CD player
with FM/AM tuner

Reproductor de CD de alta potencia con control
múltiple de CD y sintonizador FM/AM

SUPER TUNER III

Operation Manual
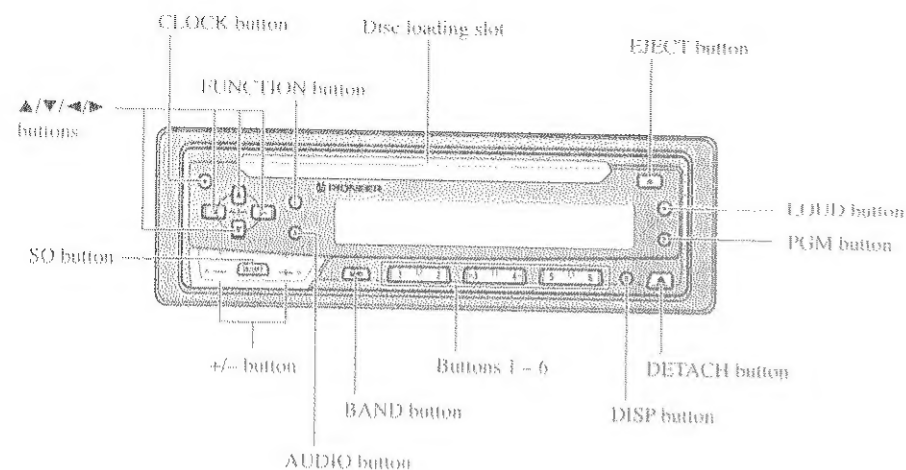# Manual de Operación

⏻ PIONEER

Contents

Head Unit

CLOCK button   Disc loading slot   EJECT button

FUNCTION button

▲/▼/◄/► buttons

SO button

+/– button   Buttons 1 – 6   DETACH button

BAND button   DISP button

AUDIO button

LOUD button

PGM button

Remote Controller

A remote controller that enables remote operation of the head unit is supplied. Operation is the same as when using buttons on the head unit.

FUNCTION button

BAND button

CD button
Press once to
select a CD.

PAUSE button
Press once to
pause play.

+/– button

AUDIO button

▲/▼/◄/► buttons

TUNER button
Press once to
select a tuner.

ATT button
This lets you quickly
lower volume level
(by about 90%). Press
once more to return to
the original volume
level.
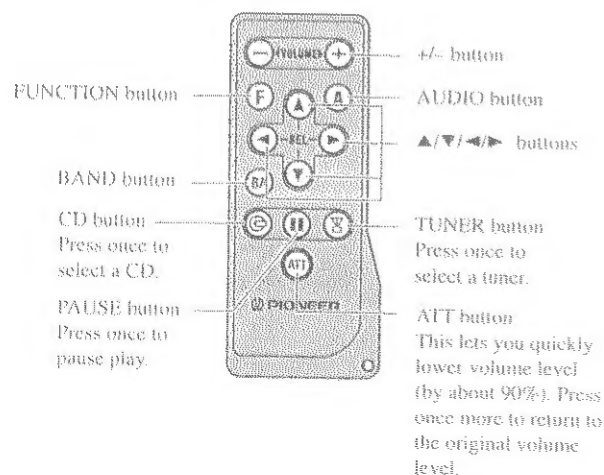
About This Manual

This product features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this product. It is especially important that you read and observe the "Precaution" on the next page and in other sections.

This manual explains head unit operation. You can perform the same operations with the remote controller. The remote controller enables one-touch source changing and pause operation, and offers the convenience of ATT, a function not provided on the head unit.

Resetting the Microprocessor

The microprocessor must be reset under the following conditions:
When using this product for the first time after installation.
When the product fails to operate properly.
When strange (incorrect) messages appear on the display.

• **To reset the microprocessor, remove the front panel as described on page 34 and press the RESET button on the head unit with a pen tip or other pointed instrument.**
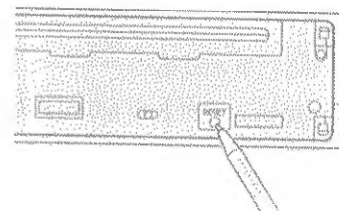
Precaution

> CAUTION: USE OF CONTROL OR ADJUSTMENT OR PERFOR-
> MANCE OF PROCEDURES OTHER THAN THOSE SPEC-
> IFIED HEREIN MAY RESULT IN HAZARDOUS RADIA-
> TION EXPOSURE.
>
> CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS
> PRODUCT WILL INCREASE EYE HAZARD.

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible.
- Protect the product from moisture.
- If the battery is disconnected, the preset memory will be erased and must be repro-grammed.
- If this product fails to operate properly, contact your dealer or your nearest authorized Pioneer Service Station.

Using the Remote Controller

This product is equipped with a remote controller for convenient operation.
- Point the controller in the direction of the front panel to operate.

Precaution:
- Do not store the remote controller in high temperatures or direct sunlight.
- The controller may not function properly in direct sunlight.
- Do not let the remote controller fall onto the floor, where it may become jammed under the brake or accelerator pedal.

Battery

There are two types of remote controller. Refer to the illustration that applies to your supplied remote controller, and load the battery accordingly.

- **Slide the tray out of the back of the remote controller and insert the battery with the (+) and (–) poles pointing in the proper direction.**
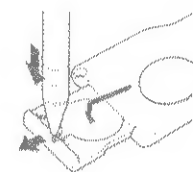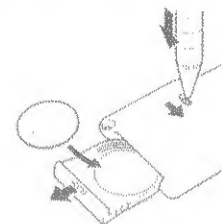
Replacing the Lithium Battery:
- Use only lithium battery "CR2032", 3 V

Precaution:
- Remove the battery if the remote controller is not used for a month or longer.
- If the event of battery leakage, wipe the remote controller completely clean and install a new battery.

> ⚠ WARNING:
>
> - Keep the Lithium Battery out of reach of children. Should the Battery be swallowed, immediately consult a doctor.
>
> ⚠ CAUTION:
>
> - Do not recharge, disassemble, heat or dispose of battery in fire.
> - Use a CR2032 (3 V) Lithium Battery only. Never use other types of battery with this product.
> - Do not handle the battery with metallic tools.
> - Do not store the Lithium Battery with metallic materials.
> - Dispose of the used Lithium Battery, in compliance with applicable laws and regulations.
> - Always check carefully that you are loading battery with its (+) and (–) poles facing in the proper directions.

To listen to music

The following explains the initial operations required before you can listen to music.

Note:
* Loading a disc in this product. (Refer to page 10)

1. Select the desired source (e.g. tuner).

Each press changes the Source ...

■ Head Unit

Each press of the SO button selects the desired source in the following order:
Built-in CD player → Tuner → Multi-CD player → AUX

■ Remote Controller

Each press of the button selects the desired source in the following order:
TUNER button : Tuner → Sources OFF
CD button   : Built-in CD player → Multi-CD player → Sources OFF

Note:
* In the following cases, the sound source will not change:
  * No Multi-CD player is connected to this product.
  * No disc is set in this product.
  * No magazine is set in the Multi-CD player.
  * AUX (external input) is set to OFF. (Refer to page 37.)

2. Raise or lower the volume.
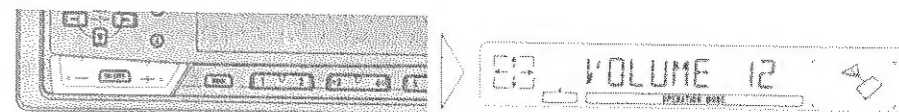
3. Source OFF.
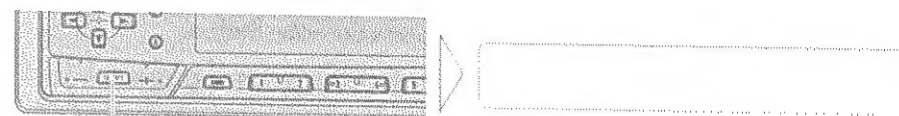
Hold for 1 second or more.

Basic Operation of Tuner

Reset the AM tuning step from 9 kHz (the factory preset step) to 10 kHz when using the tuner in North, Central or South America. (Refer to page 36)

Manual and Seek Tuning

- You can select the tuning method by changing the length of time you press the ◄/► button.

Manual Tuning (step by step)	0.3 seconds or less
Seek Tuning (automatically)	0.3 – 2 seconds
Manual Tuning (continuously)	2 seconds or more

Note:
- "()" stereo indicator lights when a stereo station is selected.

Preset Number indicator   Band indicator   Frequency indicator

Band
FM 1 → FM 2 → FM 3 → AM

Preset Tuning

- You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.

Preset station recall	2 seconds or less
Broadcast station preset memory	2 seconds or more

Note:
- Up to 18 FM stations (6 in FM1, FM2 and FM3) and 6 AM stations can be stored in memory.
- You can also use the ▲ or ▼ buttons to recall broadcast stations memorized in buttons 1 through 6.

Basic Operation of Built-in CD Player

Disc Loading Slot

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Eject

Note:
- The CD function can be turned ON/OFF with the disc remaining in this product. (See page 8.)
- Discs left partially inserted after ejection may incur damage or fall out.

Elapsed play time indicator
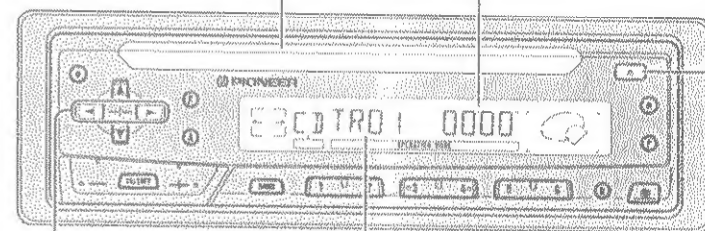
Track Number indicator

Track Search and Fast forward/Reverse

- You can select between Track Search or Fast forward/Reverse by pressing the ◄/► button for a different length of time.

Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing

Note:
- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down. Push the EJECT button and check the disc for damage before reinserting it.
- If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display. Refer to "Built-in CD Player's Error Message" on page 49.

Basic Operation of Multi-CD Player

This product can control one or more multi-CD players. (There are some types of multi-CD players such as CDX-P630S which you cannot connect more than one.)

Switching the Multi-CD Player

Using a multiple connection adapter lets you connect up to three Multi-CD players.

M-CD 1 → M-CD 2 → M-CD 3
(Displaying for about 2 seconds.)

Track Search and Fast forward/Reverse

• You can select between Track Search or Fast forward/Reverse by pressing the ◄/► button for a different length of time.

Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing

Disc Search

Disc Number indicator

Track Number indicator

Elapsed play time indicator
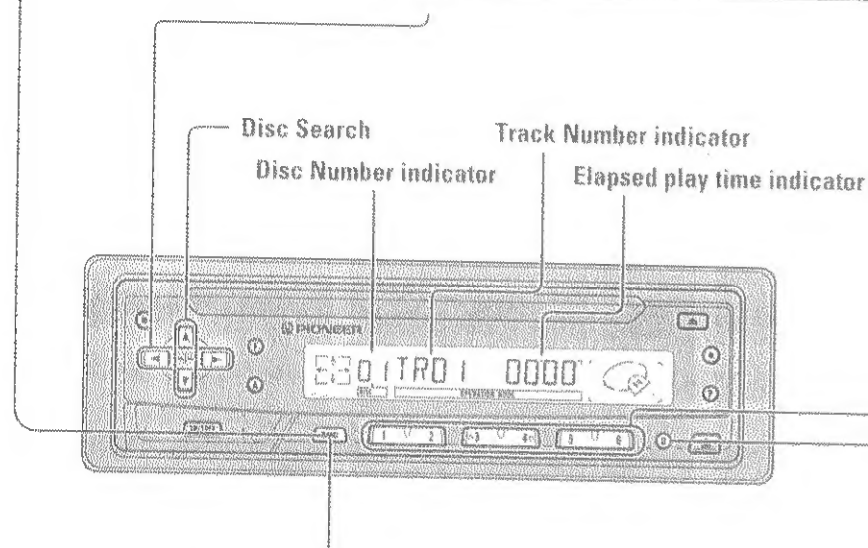
Ejecting a Single Disc (for 50-Disc type only)

• Press the BAND button for 2 seconds or more, and you can eject the currently playing disc from the extra tray.

(Refer to the operation manual for the 50-Disc type Multi-CD player for details concerning disc ejection from the extra tray.)

Note:
• This function does not operate if a disc is already loaded in the extra tray.

Disc Number Search (for 6-Disc, 12-Disc types)

• You can select discs directly with the 1 to 6 buttons. Just press the number corresponding to the disc you want to listen to.

Note:
• When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds or longer.

Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1 to 5 buttons. The 50 discs are divided into five blocks, with each of the 1 to 5 buttons assigned to a block.

• Select the desired block with the 1 to 5 buttons.

Note:
• After completing a rough search, use the ▲ and ▼ buttons to select a desired disc.

Switching between displays

• Each time you press the DISP button, the display switches between Disc Title and Group indications for the disc currently playing.

Playback mode (Elapsed play time) → Disc Title → Music Group

Note:
• Music Group display is a 50-Disc type Multi-CD player function. You cannot switch to this display with 6-Disc and 12-Disc type Multi-CD players.
• If you switch displays when disc titles have not been input or when discs have not been allocated to a music group, "NO TITLE" or "NO GROUP" is displayed for about 8 seconds.

Note:
• The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
• When a magazine is loaded into a 50-Disc type Multi-CD Player, information on all the discs in the magazine is read.
If you start playing a disc on a 50-Disc type Multi-CD Player before reading of information on all discs has been completed, reading of information stops part way through. This will prevent you from using a number of functions. (If you try and use these functions, "NOT READY" is displayed.)
If this happens, reading of information begins again when you switch to a component other than the 50-Disc type Multi-CD Player.
• If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the multi-CD player owner's manual.
• If there are no discs in the multi-CD player magazine, "NO DISC" is displayed.
• "LOAD" will be displayed in the following cases:
  * If the disc in the extra tray is selected.
  * If the disc is moved from the extra tray to the magazine.
    (Refer to the 50-Disc type multi-CD player owner's manual.)

Corresponding display indications and buttons

This product's display features Key Guidance Indicators. These light to indicate which of the ▲/▼/◄/►, FUNCTION, and AUDIO buttons you can use. When you're in the Function Menu (refer to next section) , Detailed Setting Menu (refer to page 16) , Initial Setting Menu (refer to page 35) or Audio Menu (refer to page 30) , they also make it easy to see which ▲/▼/◄/► buttons you can use to switch functions ON/OFF, switch repeat selections, and perform other operations.
Display indicator and corresponding buttons are shown below.
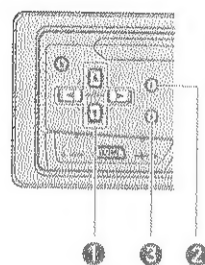
■ Head Unit   ■ Remote Controller   ■ Display
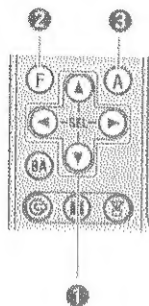
When ① is lit in the display, perform appropriate operations with the ❶ buttons.
When ② is lit in the display, it indicates that you are in the Function Menu, Detailed Setting Menu, or Initial Setting Menu. You can switch between each of these menus and between different modes in the menus using button ❷ on the head unit or remote controller.
When ③ is lit in the display, it indicates you are in the Audio Menu. You can switch between modes in the Audio Menu using button ❸ on the head unit or remote controller.

Entering the Function Menu

The Function Menu lets you operate simple functions for each source.

Note:
* After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

1. **Select the desired mode in the Function Menu. (Refer to "Function Menu functions".)**
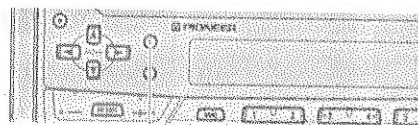
Each press changes the Mode ...

2. **Operate a mode. (e.g. Repeat Play)**

The button used and the operation it performs are indicated by the key guidance indicator. Press the ▲ button to switch the key guidance indicator ON, and the ▼ button to switch it OFF.

3. **Cancel the Function Menu.**

Function Menu functions

The following chart shows functions for each source in the Function Menu.
The chart also shows indications for each function, operations and buttons used to perform operations. For more details, or when you want to know about an operation, refer to the page number indicated in the chart.

■ Tuner

Function name (Display)	Button : Operation	Page
Best Stations Memory (BSM)	▲:ON ▼:OFF	18
Local Seek Tuning (LOCAL)	1 ▲:ON ▼:OFF 2 ◄ or ► :Select (Sensitivity)	18

■ Built-in CD Player

Function name (Display)	Button : Operation	Page
Repeat Play (REPEAT)	▲:ON ▼:OFF	19
Random Play (RANDOM)	▲:ON ▼:OFF	19
Scan Play (T-SCAN)	▲:ON ▼:OFF	20
Pause (PAUSE)	▲:ON ▼:OFF	20

■ Multi-CD Player

Function name (Display)	Button: Operation	Page
Repeat Modes (REPEAT)	◄ or ►:Select (Play range)	21
Disc Title List (TITLE LIST)	1 ◄ or ►:Select (Disc Title) 2 ▲:Play	29
"ABC" Disc Title Search (ABC SEARCH)	1 ▲ or ▼:Select (First Letter) 2 ◄ or ►:Select (Disc Title) 3 ▲:Play	29
Random Play (RANDOM)	▲:ON ▼:OFF	21
Scan Play (SCAN)	▲:ON ▼:OFF	22
ITS Play (ITSPLAY)	▲:ON ▼:OFF	24
Music Group Play (MG PLAY)	1 ◄ or ►:Select (Group) 2 ▲:ON ▼:OFF	27
Frequency Play (FREQ-P)	1 ◄ or ►:Select (Play frequency) 2 ▲:ON ▼:OFF	23
Pause (PAUSE)	▲:ON ▼:OFF	22
CD Sound Quality Adjustment (COMP)	▲ or ▼:Select (Sound Quality Function)	23

Entering the Detailed Setting Menu

In the Detailed Setting Menu, you can operate convenient, complex functions for each source.

1. **Enter the Detailed Setting Menu.**
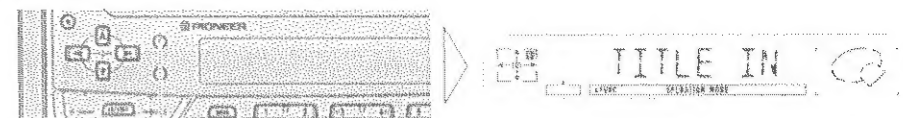
Hold for 2 seconds

2. **Select the desired mode. (Refer to "Detailed Setting Menu functions".)**
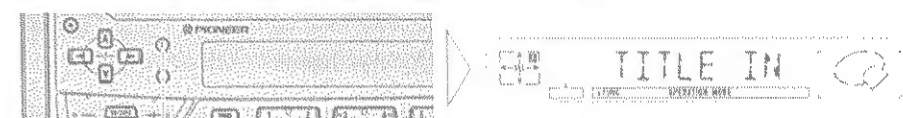
Each press changes the Mode ...

3. **Operate a mode.**

4. **Cancel the Detailed Setting Menu.**

Note:
- You can cancel the Detailed Setting Menu by pressing the FUNCTION button again for 2 seconds or more.

Detailed Setting Menu functions

The following chart shows functions for each source in the Detailed Setting Menu. The chart also shows indications for each function, operations and buttons used to perform operations. For more details, or when you want to know about an operation, refer to the page number indicated in the chart.

■ Tuner

Function name (Display)	Button : Operation	Page
Programmable Function (PGM-FUNC)	1 ◄ or ► :Select (Function) 2 ▲ :Memory	46

■ Built-in CD Player

Function name (Display)	Button : Operation	Page
Disc Title Input (TITLE IN)	1 ▲ or ▼ :Select (Letter) 2 ◄ or ► :Select (Position) 3 ► :Memory	20
Programmable Function (PGM-FUNC)	1 ◄ or ► :Select (Function) 2 ▲ :Memory	46

■ Multi-CD Player

Function name (Display)	Button : Operation	Page
Disc Title Input (TITLE IN)	1 ▲ or ▼ :Select (Letter) 2 ◄ or ► :Select (Position) 3 ► :Memory	28
ITS Programming (ITS)	▲ :Memory	24
Classifying a disc into a group (MG IN)	1 ◄ or ► :Select (Group) 2 ▲ :Memory	26
Programmable Function (PGM-FUNC)	1 ◄ or ► :Select (Function) 2 ▲ :Memory	46

Local Seek Tuning (LOCAL)

When Local mode is ON, you can only select broadcast stations providing strong reception.

1. Press the FUNCTION button and select the Local mode (LOCAL) in the Function Menu.

2. Switch the Local mode ON/OFF with the ▲/▼ buttons.

3. Select the desired Local Seek sensitivity with the ◄/► buttons.

FM : LOCAL 1 ↔ LOCAL 2 ↔ LOCAL 3 ↔ LOCAL 4
AM : LOCAL 1 ↔ LOCAL 2

Note:
• The LOCAL 4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

Best Stations Memory (BSM)

The BSM function stores stations in memory automatically.

1. Press the FUNCTION button and select the BSM mode (BSM) in the Function Menu.

2. Switch the BSM ON with the ▲ button.

The stations with the strongest signals will be stored under buttons 1-6 and in order of their signal strength.

• To cancel the process, press the ▼ button in the Function Menu before memorization is complete.

Repeat Play (REPEAT)

Repeat Play plays the same track repeatedly.

1. Press the FUNCTION button and select the Repeat mode (REPEAT) in the Function Menu.

2. Switch Repeat Play ON/OFF with the ▲/▼ buttons.

Note:
• If you perform Track Search or Fast forward/Reverse, Repeat Play is automatically canceled.

Random Play (RANDOM)

Random Play plays the tracks on a CD in random order for variety.

1. Press the FUNCTION button and select the Random mode (RANDOM) in the Function Menu.

2. Switch Random Play ON/OFF with the ▲/▼ buttons.

Scan Play (T-SCAN)

Scan Play plays the first 10 seconds or so of each track on a CD in succession.

1. Press the FUNCTION button and select the Scan mode (T-SCAN) in the Function Menu.

2. Switch the Scan Play ON with the ▲ button.

3. When you find the desired track, cancel scan play with the ▼ button.

If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.

Note:
• Scan Play is canceled automatically after all the tracks on a disc have been scanned.

Pause (PAUSE)

Let's you pause play of the track currently playing.

1. Press the FUNCTION button and select the Pause mode (PAUSE) in the Function Menu.

2. Switch the Pause ON/OFF with the ▲/▼ buttons.

Note:
• One-touch operation is possible with the remote controller.

Disc Title Input (TITLE IN)

You can use "TITLE IN" to input up to 48 disc titles for CDs in the built-in CD player. (Refer to "Disc Title Input" on page 28 under "Using Multi-CD Players".)

Note:
• If you connect a Multi-CD player, you can input disc titles for up to 100 discs.

Repeat Modes (REPEAT)

There are four repeat modes (play range): One-track Repeat, Disc Repeat, Multi-CD player Repeat (the selected Multi-CD player) and All Repeat (all Multi-CD players). (Default mode is Multi-CD player Repeat.)

1. Press the FUNCTION button and select the Repeat Selecting mode (REPEAT) in the Function Menu.

2. Select the desired Repeat Mode with the ◄/► buttons.

Multi-CD player Repeat ("MCD" is displayed) → All Repeat ("ALL" is displayed) → One-track Repeat ("TRK" is displayed) → Disc Repeat ("DSC" is displayed)

Note:
* All Repeat is available only when two or more multi-CD players are installed.
* If you go beyond the play range of the selected repeat mode by performing Track Search, Fast forward/Reverse or selecting another disc or Multi-CD player, the mode changes to an applicable Repeat mode.

Random Play (RANDOM)

Tracks are played at random within the selected repeat mode play range as explained in "Repeat Modes" above.

1. Press the FUNCTION button and select the Random mode (RANDOM) in the Function Menu.

2. Switch the Random Play ON/OFF with the ▲/▼ buttons.

After selecting the desired repeat mode play range from those referred to in "Repeat Modes" above, switch Multi-CD Player Random Play ON.

Display	Play range
D-RDM	Disc repeat
M-RDM	Multi-CD player Repeat
RDM	All Repeat

Scan Play (SCAN)

In the One-track Repeat and Disc Repeat Modes, the beginning of each track on a single disc is scanned for about 10 seconds. In the Multi-CD player Repeat and All Repeat modes, the beginning of the first track on each disc is scanned for about 10 seconds.

1. Press the FUNCTION button and select the Scan mode (SCAN) in the Function Menu.

2. Switch the Scan Play ON with the ▲ button.

After selecting the desired repeat mode play range from those referred to in "Repeat Modes" on page 21, switch Multi-CD Player Scan Play ON.

3. When you find the desired track (or disc), cancel scan play with the ▼ button.

If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.

Display	Play range
T-SCN	One Track Repeat and Disc Repeat
D-SCN	Multi-CD player Repeat
SCAN	All Repeat

Note:
* Scan Play is canceled automatically after all the tracks or discs have been scanned.

Pause (PAUSE)

Lets you pause play of the track currently playing.

1. Press the FUNCTION button and select the Pause mode (PAUSE) in the Function Menu.

2. Switch the Pause ON/OFF with the ▲/▼ buttons.

Note:
* One-touch operation is possible with the remote controller.

Frequency Play (FREQ-P) (for 50-Disc type only)

The Frequency Play Function plays discs in order, from the most frequently played disc to the least frequently played disc, or vice versa.

1. Press the FUNCTION button and select the Frequency Play mode (FREQ-P) in the Function Menu.

2. Select the desired play order with the ◄/► buttons.

   For play of discs in order starting with the most frequently played disc, select "MOST". For play of discs in order starting with the least frequently played disc, select "LEAST".

3. Switch the Frequency Play ON/OFF with the ▲/▼ buttons.

   Note:
   • During Frequency Play, pressing the ▲ or ▼ button changes to the previous or next disc in the frequency order.

CD Sound Quality Adjustment (COMP)

Using the COMP (Compression) and DBE (Dynamic Bass Emphasis) functions enables Multi-CD player sound quality adjustment. Both of the functions enable adjustment on two levels.

■ COMP

The COMP (compression) function eliminates distortions caused by imbalances between loud and subdued sounds at higher volumes.

■ DBE

DBE (dynamic bass emphasis) boosts bass levels to give a fuller sound.

1. Press the FUNCTION button and select the COMP/DBE Switching mode (COMP) in the Function Menu.

2. Select the desired mode with the ▲/▼ buttons.

   COMP OFF → COMP 1 → COMP 2 → COMP OFF → DBE 1 → DBE 2

   Note:
   • You can use these functions with Multi-CD players that have them. If the player does not feature the COMP/DBE functions, "NO COMP" is displayed if you try to use them.

ITS (Instant Track Selection)

The ITS function allows you to search for the track you wish to play when one or more multi-CD players are installed. You can use ITS to program automatic playback of up to 24 tracks per disc from up to 100 discs. (You can store ITS program and Disc Title data for up to 100 discs in memory. With a 50-Discs type multi-CD player, you can also store Music Group data.)

ITS Programming (ITS)

ITS programming can be conducted in any multi-CD player playback mode except ITS play.

1. Play the track you wish to program.

2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu. (Refer to page 16.)

3. Program the desired track with the ▲ button.

   Note:
   • After 100 discs have been programmed, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.

ITS Play (ITSPLAY)

ITS play of tracks is performed within the play range explained in the "Repeat Modes" section.

1. Press the FUNCTION button and select the ITS Play Mode (ITSPLAY) in the Function Menu.

2. Switch ITS Play ON/OFF with the ▲/▼ buttons.

   After selecting the desired repeat mode play range from those referred to in "Repeat Modes" on page 21, switch ITS play ON.

   Note:
   • If no track in the current range is programmed for ITS play "ITS EMPTY" is displayed.

Erase a track program

1. Select the track you wish to erase, during ITS play.

2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu. (Refer to page 16.)

3. Erase with the ▼ button.

   ITS is canceled and playback of the next ITS-programmed track begins. If there are no more programmed tracks in the current range, "ITS EMPTY" is displayed and normal play resumes.

Erase a disc program

1. Select the disc you wish to erase, while the disc is playing.

2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu. (Refer to page 16.)

3. Erase with the ▼ button.

Music Group Play (for 50-Disc type only)

The Music Group Play function classifies discs loaded in a 50-Disc type Multi-CD player into 10 groups, and plays only discs from the same group.
Up to 100 discs can be classified into groups. (Music Group, ITS program and Disc Title data for up to 100 discs can be stored in memory.)

Classifying a disc into a group (MG IN)

1. Play the disc you want to classify into a group.

2. Select the Music Group Input mode (MG IN) in the Detailed Setting Menu. (Refer to page 16.)

3. Select the desired group with the ◄/► buttons.

   Note:
   • Music Group types are as follows.
     ROCK 1, ROCK 2, POP, JAZZ, INSTRMNT, CLASSIC, GROUP 1, GROUP 2, GROUP 3, GROUP 4.

4. Memorize the disc in the selected group with the ▲ button.

   Note:
   • Even if you remove a disc from a magazine after you have registered it in a group, its assigned group is stored in memory. This means that when you reinsert the disc in the magazine, there's no need to reassign it to the group.
   • After assigning 100 discs to groups, data input for a new disc overwrites data for the disc that has been played least recently.
   • You can display the group name of the disc currently playing. For details, refer to "Switching between displays" on page 12.

Music Group Play (MG PLAY)

Only discs in the same group are played.

1. Press the FUNCTION button and select the Music Group Play mode (MG PLAY) in the Function Menu.

2. Select the desired Music Group with the ◄/► buttons.

Note:
* At first, the group of the disc currently playing is displayed. If the disc playing does not belong to a group, "NO GROUP" is displayed.

3. Switch Music Group Play ON/OFF with the ▲/▼ buttons.

"MG"

Deleting ■ disc from a Music Group

1. Play the disc you want to delete from a group.

2. Select the Music Group Input mode (MG IN) in the Detailed Setting Menu. (Refer to page 16.)

3. Delete from the group with the ▼ button.

Note:
* During music group play, if you have deleted the disc currently playing from the group, the next disc in the group is played. If all discs in the same group have been deleted, "NO GROUP" is displays".

Disc Title

Disc Title Input (TITLE IN)

You can input Titles up to 10 letters long for up to 100 discs. Using this function lets you easily search for and select a desired disc for play. (You can store ITS program and Disc Title data for up to 100 discs in memory. With a 50-Disc type multi-CD player, you can also store Music Group data.)

1. Play the disc you wish to input the disc title.

2. Select the Disc Title Input mode (TITLE IN) in the Detailed Setting Menu. (Refer to page 16.)

3. Select letters, numbers and symbols with the ▲/▼ buttons.

   To insert a space, select the flashing cursor "_".

4. Move the box left and right with the ◄/► buttons.

5. When you have completed title input, make the 10th letter flash, and then memorize by pressing the ► button.

Note:
* Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
* After the titles for 100 discs have been entered, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.
* You can display the disc title of the disc currently playing. For details, refer to "Switching between displays" on page 12.

Disc Title List (TITLE LIST)

Follow the procedures below to play a disc for which you have input the title in a multi-CD player.

1. Press the FUNCTION button and select the Disc Title List mode (TITLE LIST) in the Function Menu.

2. Each time you press the ◄/► buttons, titles in the current disc magazine are displayed in the order of their disc numbers.

   Nothing is displayed for disc whose titles have not been input.

3. Select the desired disc for playback by pressing ▲ button when its title is displayed.

"ABC" Disc Title Search (ABC SEARCH) (for 50-Disc type only)

You can search for and select a disc by searching for the first letter of the desired disc's Disc Title.

1. Press the FUNCTION button and select the "ABC" Disc Titles Search mode (ABC SEARCH) in the Function Menu.

2. Select the desired first letter with the ▲/▼ buttons.

3. Each time you press the ◄/► buttons, disc titles beginning with the selected letter are displayed in order.

   Note:
   • Press the ▼ button to return to selection of the first letter.

4. Select the desired disc for playback by pressing ▲ button when its title is displayed.

   Note:
   • When there are no disc titles starting with the letter you selected, "NO TITLE" flashes in the display.

Entering the Audio Menu

With this Menu, you can adjust the sound quality.

Note:
• After entering the Audio Menu, if you do not perform an operation within about 30 seconds, the Audio Menu is automatically canceled.

1. Select the desired mode in the Audio Menu.

   Each press changes the Mode ...

2. Operate a mode.

3. Cancel the Audio Menu.

Audio Menu functions

The Audio Menu features the following functions.

Balance Adjustment (FADER)

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. Press the AUDIO button and select Fader/Balance mode (FADER) in the Audio Menu.

2. Adjust front/rear speaker balance with the ▲/▼ buttons.

   "FADER F15" – "FADER R15" is displayed as it moves from front to rear.

3. Adjust left/right speaker balance with the ◄/► buttons.

   "BAL L 9" – "BAL R 9" is displayed as it moves from left to right.

   Note:
   • "FADER 0" is the proper setting when 2 speakers are in use.

Bass/Treble Adjustment (BASS, TREBLE)

This product is equipped with two tone adjustment modes, the Bass (BASS) and Treble (TREBLE) modes. It is possible to select a different tone adjustment setting for each source. The built-in CD player and multi-CD player are set to the same tone adjustment setting automatically.

1. Press the AUDIO button, and select Bass mode (BASS) or the Treble mode (TREBLE) in the Audio Menu.

2. Increase or decrease the intensity of the Bass or Treble, whichever is selected with the ▲/▼ buttons.

   The display shows "+6" ... "-6".
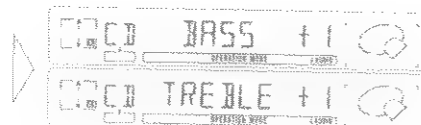
Loudness Adjustment (LOUD)

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume. Initially, Loudness function is ON.

1. Press the AUDIO button and select the Loudness mode (LOUD) in the Audio Menu.

2. Switch the Loudness function ON/OFF with the ▲/▼ buttons.

Note:
* You can also switch the Loudness function ON/OFF with the LOUD button.

Sub-woofer Output (SUB.W)

This product is equipped with a Sub-woofer output which can be switched ON or OFF. Initially, Sub-woofer output is ON.

1. Press the AUDIO button and select the Sub-woofer ON/OFF mode (SUB.W) in the Audio Menu.

2. Switch the Sub-woofer output ON/OFF with the ▲/▼ buttons.

Note:
* You cannot select the SUB.W mode if the preout setting is switched to Front output mode in the Initial Setting Menu. (See page 35.)
* Select the OFF setting when you do not want the Sub-woofer to operate.

Sub-woofer Setting Adjustment (80HZ 0)

When the Sub-woofer output is ON, you can adjust the cut-off frequency and the output level of Sub-woofer.

1. Press the AUDIO button and select the Sub-woofer setting mode (80HZ 0) in the Audio Menu.

2. Select the frequency to 50 Hz, 80 Hz or 125 Hz with the ◄/► buttons.

3. Increase or decrease the output level with the ▲/▼ buttons.

   The display shows "+6" ... "-6".

Note:
* You can select the Sub-woofer setting mode only when Sub-woofer output is switched ON in the Sub-woofer ON/OFF mode.

Front Image Enhancer Function (FIE)

The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies.

> **Precaution:**
> * When the F.I.E. function is deactivated, the rear speakers output sound at all frequencies, not only bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

1. Press the AUDIO button and select the F.I.E. mode (FIE) in the Audio Menu.

2. Switch the F.I.E. function ON/OFF with the ▲/▼ buttons.

Note:
* After switching the F.I.E. function ON, select the Fader/Balance mode in the Audio Menu, and adjust front and rear speaker volume levels until they are balanced.
* Switch the F.I.E. function OFF when using a 2-speaker system.

Source Level Adjustment (SLA)

The SLA (Source Level Adjustment) function prevents radical leaps in volume when switching between sources. Setting are based on the FM volume, which remains unchanged. (Since the FM volume is the control, SLA is not possible in the FM modes.) The AM, CD and AUX levels can all be adjusted.
The built-in CD player and multi-CD player are set to the same volume adjustment setting automatically.

1. Compare the FM volume with the volume of the other source. (e.g. Built-in CD player)

2. Press the AUDIO button and select the SLA mode (SLA) in the Audio Menu.

3. Increase or decrease the level with the ▲/▼ buttons.
The display shows "+4" - "-4".

Theft Protection

The front panel of the head unit is detachable to discourage theft.

Detaching the Front Panel

1. Eject the front panel.
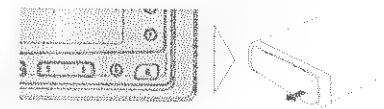
2. To remove the front panel, pull its right-hand side toward you.
Take care not to grip it tightly or drop it.

3. Use the protective case provided to store/carry the detached front panel.
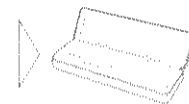
Replacing the Front Panel

* Replace the front panel by clipping it into place.
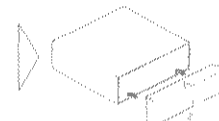
Precaution:
* Never use force or grip the display tightly when removing or replacing the front panel.
* Avoid subjecting the front panel to excessive shocks.
* Keep the front panel out of direct sunlight and high temperatures.

Warning Tone

If the front panel is not detached within 5 seconds after the ignition is turned off, a warning tone will sound.

Note:
* You can cancel the warning tone function. (Refer to page 36)

Entering the Initial Setting Menu

With this Menu, you can perform initial settings for the product.

1. Switch the sources OFF.

2. Enter the Initial Setting Menu with the sources OFF.
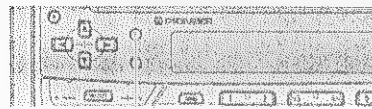
Hold for 2 seconds

3. Select the desired mode.

Each press changes the Mode ...

4. Operate a mode.

5. Cancel the Initial Setting Menu.

Note:
* ALARM is a new feature of the "Detachable Face Security Alarm". Refer to "DFS Alarm Function" for details and instructions on how to use this function.
* Holding down the FUNCTION button for 2 seconds also cancels the Initial Setting Menu.

Initial Setting Menu functions

The Initial Setting Menu features the following functions.

Changing the FM Tuning Step (FM STEP)

The tuning step employed by Seek Tuning in the FM mode can be switched between 100 kHz (preset at the factory) and 50 kHz.

1. Press the FUNCTION button and select the FM Tuning Step mode (FM STEP) in the Initial Setting Menu.

2. Switch the desired tuning step with the ◄/► buttons.
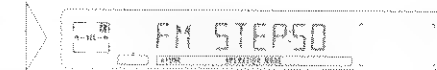
Note:
* If Seek Tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with Manual Tuning or use Seek Tuning again.

Changing the AM Tuning Step (AM STEP)

The tuning step employed in the tuner's AM band can be switched between 9 kHz and 10 kHz per step. Reset the tuning step from 9 kHz (the factory preset step) to 10 kHz when using the tuner in North, Central or South America.

Specifications	Initial Setting	New Setting
Tuning Steps	9 kHz	10 kHz
Frequency range	531 – 1,602 kHz	530 – 1,710 kHz

1. Press the FUNCTION button and select the AM Tuning Step mode (AM STEP) in the Initial Setting Menu.

2. Select the desired step with the ◄/► buttons.

Setting the Warning Tone (WARN)

You can switch the Warning Tone function ON/OFF. (Refer to "Warning Tone" on page 34.)

1. Press the FUNCTION button and select the Warning tone mode (WARN) in the Initial Setting Menu.

2. Switch the Warning tone ON/OFF with the ▲/▼ buttons.

Switching the AUX Mode (AUX)

It is possible to use auxiliary (AUX) equipment with this product.
Activate the AUX mode when using external equipment with this product.

1. **Press the FUNCTION button and select the AUX Setting (AUX) mode in the Initial Setting Menu.**

2. **Switch the AUX ON/OFF with the ▲/▼ buttons.**

> `AUX ON`

Setting Preout Output (PREOUT)

This product is equipped with two Preout outputs. One is for Rear output. The other can be used for Sub-woofer or Front output. Initially, it is set for Sub-woofer output. When connecting a front speaker to this output, set for Front output.

1. **Press the FUNCTION button and select the Preout Output Setting mode (PREOUT) in the Initial Setting Menu.**

2. **Switch your desired Preout output type with the ◄/► buttons.**

> `PREOUT FRT`

Setting the Dimmer (DIMMER)

To enable this product's display from being too bright at night, when the vehicle's headlights are turned ON the display is dimmed. You can switch this function ON/OFF.

1. **Press the FUNCTION button and select the Dimmer mode (DIMMER) in the Initial Setting Menu.**

2. **Switch the Dimmer ON/OFF with the ▲/▼ buttons.**

> `DIMMER ON`

In addition to the Detachable Face Security, Pioneer has incorporated a new feature "**Detachable Face Security Alarm**". This feature is designed to protect your new Pioneer car stereo as well as your vehicle contents.

Activating the DFS Alarm Feature

Pioneer has developed a menu display that allows you to set-up your DFS Alarm to meet your personal needs. By scrolling through this menu it is possible to select your own "Entry Delay Time", "Speaker Output Volume" and "Selectable Output", "Door System Type", "Ignition Key Disarm" and "Remote Disarm".
Initially from the factory the DFS Alarm feature is not activated.

1. **Select the DFS Alarm Feature ON/OFF mode (ALARM) with the sources OFF. (Refer to page 35)**

> `ALARM OFF`

2. **Press the ▲ button to switch the DFS Alarm Feature ON.**
   Press the ▼ button to deactivate the DFS Alarm Feature.

> `ALARM ON`

3. **Press the FUNCTION button for 2 seconds to set the DFS ALARM Setting menu.**

> `DELAY : 15`

Setting Entry Delay Time

Initially the "Entry Delay Time" is set to 15 seconds. The "Entry Delay Time" can be adjusted to be 0, 5, 15, 30, 45 or 60 seconds.

1. **Decrease or increase the "Entry Delay Time" with the ◄/► buttons.**

> `DELAY : 60`

2. **Press the FUNCTION button to move to the next selection.**

> `SPEAKERON`

Activating Internal Speaker ON/ OFF

This feature allows you to select whether or not the speaker output is sounded when the "DFS Alarm" is triggered. Initially from the factory the speaker output is activated. Toggling between ▲, ▼ buttons allows you to deactivate or activate the "Internal Speaker". If you switch the speaker output OFF, you can not change the "TEST MODE".

Speaker Volume Output Adjustment

If the "Internal Speaker Output" has been selected then it is possible to adjust the volume of the speaker output for when the Alarm is triggered. To adjust the volume you must engage the "TEST MODE".

Note:
• If the "Internal Speaker Output" is turned OFF, then this menu will not appear.

1. Select the "TEST MODE" with the ► button.

    T-VOL OFF

2. Press the ▲ button to switch the "TEST MODE" ON.
   In this mode the speakers will sound.

    T-VOL : 10

3. Decrease or increase the volume with the volume buttons.
   Display shows 10 – 30.

    T-VOL : 30

4. After setting volume with the ▼ button, cancel the "TEST MODE", then move to the next selection.

    T-VOL OFF

5. Cancel the "TEST MODE" with the ◄ button.

    SPEAKERON

6. Press the FUNCTION button to move to the next selection.

    PULSE

Setting the Selectable Output (Pulse/Constant)

This mode enables you to select a "Constant" output or "Pulsed" output. When connecting a Siren the "Constant" output should be selected. When connecting the horn or lights the "Pulsed" output should be selected.

1. Select your desired output type with the ◄/► buttons.

    PULSE

2. Press the FUNCTION button to move to the next selection.

    DOOR-L CLS

Selecting Door Switching Systems

It is necessary to select the correct "Door System Type" (Negative or Positive switching) for that of your vehicle. Initially, the system is set for vehicles with the grounding type (Negative switching).
Select the correct "Door system type" of your vehicle from below.

■ Vehicles to select "DOOR-L :CLS"
GM, CHRYSLER, JAPANESE, EUROPEAN

■ Vehicles to select "DOOR-H :CLS"
FORD, JAGUAR, MERCEDES*, etc
* Some Models Only

• Select "DOOR-L :CLS" or "DOOR-H :CLS" with the ◄/► buttons.

    DOOR-L CLS

Door System Confirmation

The door system confirmation feature was incorporated to ensure that the correct door system type has been selected. (e.g. Set to "DOOR-L :CLS" for GM vehicles.)

1. **First, close all the vehicle's doors. If the correct door system type has been selected then the Display will show "DOOR-L :CLS".**

   If not, select the alternative door system type by pressing the ◄ or ► button. Lastly, confirm each door triggers the Alarm by opening and closing each vehicle's door.

2. **As the vehicle's door is opened the display should change accordingly ("DOOR-L :CLS" – "DOOR-L :OPN").**

3. **Press the FUNCTION button to move to the next selection.**

Ignition Key Disarm

You can disarm "DFS Alarm" with the ignition key if you have forgotten the Detachable face panel.

The method for disarming "DFS Alarm" with the ignition key differs depending on whether this function is switched ON or OFF.

■ **If this function is "ON" or "OFF":**

The "DFS Alarm" can be disarmed if the Detach face is reattached within the "Entry Delay Time".

■ **If this function is "ON":**

The "DFS Alarm" can be disarmed if the ignition key is inserted in the ignition within the "Entry Delay Time", then the key is turned from "OFF" to "ON" 5 times within 1 minute.

■ **If this function is "OFF":**

The "DFS Alarm" can be disarmed if the ignition key is inserted in the ignition and turned from "OFF" position to the "ON" within the "Entry Delay Time".

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1. **Switch the Ignition Key Disarm ON/OFF with the ▲/▼ buttons.**
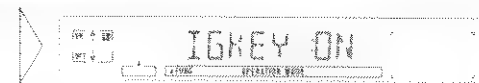
2. **Press the FUNCTION button to move to the next selection.**
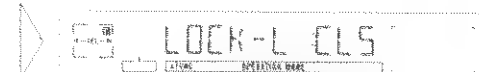
Central Door Lock Systems

The DFS Alarm can be disarmed by unlocking the doors with a remote keyless entry system. If the product's standby state is disarmed, the LED's blinking speed becomes faster. (It can be understood if the "DFS Alarm" has been disarmed by the change in the LED's blinking speed.)

Note:
- If the "DFS Alarm" is disarmed by the keyless entry system, it will remain disarmed. To reset, turn the ignition on reattach the face then turn the ignition to the off position and remove the detachable face.
- If your vehicle is equipped with a central door lock but the glass or shock sensor is not connected, if the window is broken and the central door lock is released, this product's DFS Alarm will not operate.
- Pioneer recommends that both a shock sensor and glass sensor be installed when you are using the "Remote Disarming" feature.

Selecting the Door Lock Type

- **Select the "LOCK-L :CLS" or "LOCK-H :CLS" for the correct door lock type with the ◄/► buttons.**

Door Lock Confirmation

The door lock confirmation feature was incorporated to ensure that the correct door lock type has been selected. (e.g. Set to "LOCK-L :CLS".)

1. **As the vehicle's doors are unlocked with central door lock system the display should flash "LOCK-L :OPN" accordingly.**

   If not, select the alternative door lock type by pressing the ◄ or ► button.

   Continued overleaf.

2. Press the BAND button and cancel the DFS Alarm Setting Menu.

Setting of the "DFS Alarm" is now complete.

Note:
- In case that the battery is disconnected or the RESET button is pressed, it may be necessary to reprogram the DFS Alarm Menu; otherwise this setting needs to be done only once.
- When the DFS Alarm is armed, you cannot disarm it by pressing the RESET button.

Operation of "DFS Alarm"

Providing the installation and setting of the "DFS Alarm Setting Menu" has been performed correctly, operation of the "DFS Alarm" is very simple.

Arming Alarm

To arm your Alarm simply turn off the ignition and detach the front panel, as described on page 34. After detaching the front panel the "DFS Alarm" will automatically arm itself after 30 seconds, providing all of the doors are closed. If after 30 seconds, a door still remains open the DFS Alarm will not arm until the last door has been closed. After closing all of the doors, ensure that they are securely locked. The LED indicator on the head unit will flash as a visual deterrent. Your vehicle is now protected by your "DFS Alarm".
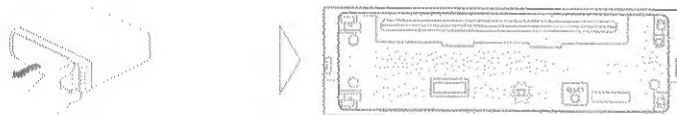
Disarming Alarm

Upon entering your vehicle, and within the "Entry Delay Time" set within the "DFS Alarm Menu", attach your Pioneer Detachable Face as described on page 34.

If you have forgotten the Detachable Face Panel:

If the "Ignition Key Disarm" is "ON", insert the ignition key in the ignition within the "Entry Delay Time", then turn the key from "OFF" to "ON" 5 times within 1 minute. If the "Ignition Key Disarm" is "OFF", insert the ignition key in the ignition and turn the key from "OFF" to "ON" within the "Entry Delay Time".

Entry Detection

If the "DFS Alarm" was not disarmed in accordance with "Disarming Alarm", the "DFS Alarm" will be triggered. The "DFS Alarm" will sound for 60 seconds and will repeat 5 times if any door is left open or reopened. After the fifth time the "DFS Alarm" will reset to prevent continuous sounding and prevent your battery from discharging.

Precaution:
- Upon returning to your vehicle and before opening any doors, check to see if the LED indicator is still flashing. If the LED is no longer flashing, it indicates that the Alarm as sounded. Disarming, as described above, is still necessary.

Time Display/Setting

Displaying the Time

• To turn the time display ON with the source ON.

The time display disappears temporarily when you perform another operation, but the time indication returns to the display after 25 seconds.

Setting the Hours

• While holding down the CLOCK button, press button 1 to set the hour.
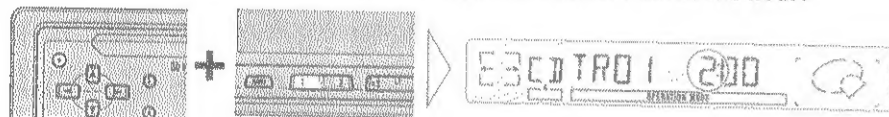
Setting the Minutes

• While holding down the CLOCK button, press button 2 to set the minute.

When you release the CLOCK button, the second count begins from 0 seconds.

Synchronizing with the Time Announcement

• While holding down the CLOCK button, press button 3 to reset the minute and second indications to zero.

e.g. : When synchronizing between 1:30 and 2:29.
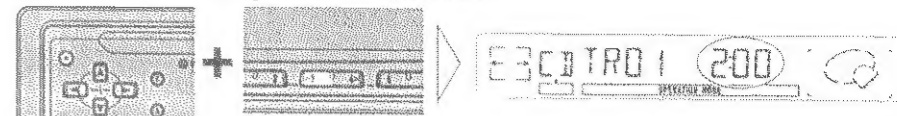
Note:
• The hour and minute can be advanced by pressing the respective buttons either consecutively or continuously.

Using the PGM Button (PGM-FUNC)

The PGM(Programmable) button can memorize one of the functions in the Function Menu.
It is possible to memorize a different function for each source.

Setting the PGM Button

1. Select the PGM button setting mode.
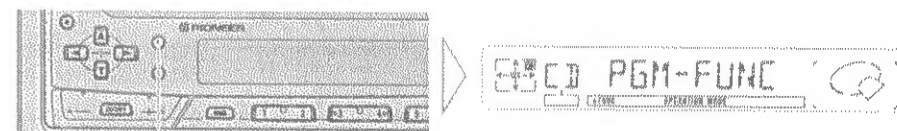
   Hold for 2 seconds

2. Select the function you want to memorize in the PGM button.
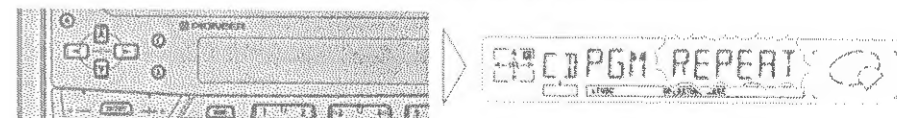
   Continued overleaf.

3. Memorize the function in PGM button.

To cancel the PGM button setting mode, press the BAND button.

Using the PGM Button

The PGM button operates in a different way depending on the function programmed (memorized).

• Use the PGM button.

■ Tuner

Function Name (Display)	Press	Hold for 2 seconds
Best Stations Memory (BSM)	OFF	ON
Local Seek Tuning (LOCAL)	ON/OFF	Entering the Local Seek Sensitivity mode

■ Built-in CD Player

Function Name (Display)	Press	Hold for 2 seconds
Pause (PAUSE)	ON/OFF	
Repeat Play (REPEAT)	ON/OFF	
Random Play (RANDOM)	ON/OFF	

■ Multi-CD Player

Function Name (Display)	Press	Hold for 2 seconds
Pause (PAUSE)	ON/OFF	
Repeat Modes (REPEAT)	Selecting the mode	
Random Play (RANDOM)	ON/OFF	
Disc Title List (TITLE LIST)	Enter the LIST mode	
ITS	ITS Programming	ON/OFF

Using the AUX Source

It is possible to use auxiliary (AUX) equipment with this product.
To listen to auxiliary equipment, switch the AUX Mode in the Initial Setting Menu ON, and then select the desired source.

Selecting the AUX Source

• Select AUX. (Refer to page 7.)

Each press changes the Source ...

AUX Title Input

The display title for AUX Source can be changed.

1. Select the Aux Title Input mode in Detailed Setting Menu.

Hold for 2 seconds

2. Input the Aux Title.

Refer to "Disc Title Input" on page 28, and perform procedures 3 to 5 in the same way.

Precaution

• Play only CDs bearing the Compact Disc Digital Audio mark.

COMPACT disc DIGITAL AUDIO

• Check all CDs before playing and discard cracked, scratched or warped discs.

• Wipe dirty or damp discs outward from the center with a soft cloth.

▪ Avoid touching the recorded (iridescent) surface when handling discs.
• Store discs in their cases when not in use.
• Keep discs out of direct sunlight and high temperatures.
• Do not affix labels or apply chemicals to discs.
• Condensation may collect inside the player when using the heater in cold weather, interfering with playback. Turn it off for an hour or so and wipe damp discs with a soft cloth.
• Road shocks may interrupt CD playback.

Built-in CD Player's Error Message

When problems occur with CD playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.

Message	Possible cause	Recommended action
ERROR- 11, 12, 17, 30	Dirty disc.	Clean the disc.
ERROR- 11, 12, 17, 30	Scratched disc.	Replace the disc.
ERROR- 14	Unrecorded CD.	Check the disc.
ERROR- 10, 11, 12, 14, 17, 30, A0	Electrical or mechanical problem.	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
HEAT	CD player overheating.	Discontinue play until the machine temperature drops.

ENGLISH

General

Power source .... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system .... Negative type
Max. current consumption .... 10.0 A
Dimensions
    (DIN) (chassis) ..... 178 (W) × 50 (H) × 150 (D) mm
          (nose) .... 188 (W) × 58 (H) × 19 (D) mm
    (D) (chassis) ..... 178 (W) × 50 (H) × 155 (D) mm
          (nose) .... 170 (W) × 48 (H) × 14 (D) mm
Weight .... 1.4 kg

Amplifier

Continuous power output is 20 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output .... 40 W × 4
Load impedance .... 4 Ω (4 – 8 Ω allowable)
Preout output level/output impedance .... 500 mV/1 kΩ
Tone controls
    (Bass) .... ±12 dB (100 Hz)
    (Treble) .... ±12 dB (10 kHz)
Loudness contour .... +10 dB (100 Hz), +7 dB (10 kHz)
                                              (volume: –30 dB)

CD player

System .... Compact disc audio system
Usable discs .... Compact disc
Signal format .... Sampling frequency: 44.1 kHz
                        Number of quantization bits: 16; linear
Frequency characteristics .... 5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio .... 94 dB (1 kHz)(IEC-A network)
Dynamic range .... 90 dB (1 kHz)
Number of channels .... 2 (stereo)

FM tuner

Frequency range .... 87.5 – 108 MHz
Usable sensitivity
    .... 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .... 16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio .... 70 dB (IEC-A network)
Distortion .... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response .... 30 – 15,000 Hz (±3 dB)
Stereo separation .... 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range .... 531 – 1,602 kHz (9 kHz)
                                 530 – 1,710 kHz (10 kHz)
Usable sensitivity .... 18 μV (S/N: 20 dB)
Selectivity .... 50 dB (±9 kHz)
                                          50 dB (±10 kHz)

Note:
• Specifications and the design are subject to possible modification without notice due to improvements.